

APPENDIX C
Precipitation Distribution Table
Depth-Duration-Frequency Table, Intensity-Duration-Frequency

Precipitation Distribution Table

Storm Time (hours)	2-year 24 hour Precipitation Distribution		10-year 24 hour Precipitation Distribution	
	Cumulative Rainfall Amount (inches)	Incremental Rainfall Amount (inches)	Cumulative Rainfall Amount (inches)	Incremental Rainfall Amount (inches)
0.0	0.000	0.000	0.000	0.000
0.5	0.019	0.019	0.027	0.027
1.0	0.038	0.019	0.055	0.028
1.5	0.057	0.020	0.084	0.029
2.0	0.078	0.021	0.114	0.030
2.5	0.099	0.021	0.145	0.031
3.0	0.121	0.022	0.177	0.032
3.5	0.145	0.023	0.211	0.034
4.0	0.169	0.024	0.246	0.035
4.5	0.194	0.025	0.283	0.037
5.0	0.221	0.027	0.322	0.039
5.5	0.249	0.028	0.363	0.041
6.0	0.279	0.030	0.406	0.043
6.5	0.310	0.032	0.452	0.046
7.0	0.344	0.034	0.502	0.049
7.5	0.381	0.037	0.555	0.054
8.0	0.421	0.040	0.614	0.058
8.5	0.465	0.044	0.677	0.064
9.0	0.513	0.049	0.748	0.071
9.5	0.569	0.055	0.829	0.081
10.0	0.633	0.064	0.922	0.093
10.5	0.715	0.082	1.041	0.119
11.0	0.823	0.108	1.199	0.158
11.5	0.992	0.169	1.445	0.246
12.0	2.321	1.330	3.382	1.937
12.5	2.573	0.252	3.749	0.367
13.0	2.703	0.131	3.939	0.190
13.5	2.796	0.093	4.074	0.135
14.0	2.863	0.066	4.171	0.097
14.5	2.933	0.070	4.274	0.103
15.0	2.988	0.055	4.354	0.081
15.5	3.037	0.048	4.425	0.070
16.0	3.080	0.044	4.489	0.064
16.5	3.120	0.040	4.546	0.058
17.0	3.157	0.037	4.600	0.054
17.5	3.190	0.034	4.649	0.049
18.0	3.222	0.032	4.695	0.046
18.5	3.252	0.030	4.738	0.043
19.0	3.280	0.028	4.779	0.041
19.5	3.306	0.026	4.817	0.038
20.0	3.332	0.026	4.855	0.037
20.5	3.356	0.024	4.890	0.035
21.0	3.379	0.023	4.923	0.033
21.5	3.402	0.023	4.957	0.034
22.0	3.422	0.020	4.986	0.030
22.5	3.443	0.021	5.016	0.030
23.0	3.462	0.020	5.045	0.029
23.5	3.481	0.019	5.073	0.028
24.0	3.500	0.019	5.100	0.027

DEPTH-DURATION-FREQUENCY TABLE

DURATION	2-yr [in]	5-yr [in]	10-yr [in]	25-yr [in]	50-yr [in]	100-yr [in]
5 min	0.47	0.54	0.60	0.68	0.75	0.81
10 min	0.73	0.86	0.96	1.11	1.22	1.34
15 min	0.91	1.09	1.21	1.40	1.55	1.70
30 min	1.26	1.54	1.74	2.04	2.27	2.49
60 min	1.62	2.01	2.29	2.70	3.01	3.32
2 hr	1.83	2.28	2.60	3.06	3.42	3.78
3 hr	2.03	2.55	2.91	3.43	3.84	4.24
6 hr	2.56	3.23	3.70	4.37	4.89	5.41
12 hr	3.03	3.84	4.40	5.21	5.83	6.46
24 hr	3.50	4.44	5.10	6.04	6.77	7.50

INTENSITY-DURATION-FREQUENCY TABLE

DURATION	2-yr [in/hr]	5-yr [in/hr]	10-yr [in/hr]	25-yr [in/hr]	50-yr [in/hr]	100-yr [in/hr]
5 min	5.66	6.52	7.17	8.16	8.94	9.72
10 min	4.38	5.18	5.77	6.64	7.33	8.01
15 min	3.64	4.34	4.86	5.62	6.21	6.80
30 min	2.52	3.08	3.49	4.07	4.53	4.99
60 min	1.62	2.01	2.29	2.70	3.01	3.32
2 hr	0.91	1.14	1.30	1.53	1.71	1.89
3 hr	0.68	0.85	0.97	1.14	1.28	1.41
6 hr	0.43	0.54	0.62	0.73	0.82	0.90
12 hr	0.25	0.32	0.37	0.43	0.49	0.54
24 hr	0.15	0.19	0.21	0.25	0.28	0.31

IDF EQUATIONS

R	g	h
2	127	19
5	161	21
10	185	22
25	220	23
50	246	24
100	273	24

$$I = g / (h + T_d)$$

VALID ONLY UP
TO 2 HOURS

T_d = duration (mins)

INPUT

Duration	2-yr P [in]	100-yr P [in]	Source
5 min	0.47	0.81	NOAA HYDRO-35
15 min	0.91	1.70	NOAA HYDRO-35
60 min	1.62	3.32	NOAA HYDRO-35
24 hr	3.50	7.50	USWB TP-40

